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32	0	((install or update) and ( logon or log or authenticate or sign) and success\$3 and (message or signal) and log and image and error and retrieve and Internet and connect\$3 and remote and simultaneous ) and (PACS or "picture archiving communication system")	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/08/22 14:27
33	1020	extract near3 (image) and analysis	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/08/22 14:28

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36	55	(extract near3 (image) and analysis) and	USPAT;	2002/08/22
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37	513	713/202.ccls.	IBM_TDB	2002/00/22
31	313	/ 13/202.ccis.	USPAT; US-PGPUB;	2002/08/22 14:38
			EPO; JPO;	14.30
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38	27	713/202.ccls. and picture	USPAT;	2002/08/22
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39	12	380/232.ccls. and picture	IBM_TDB USPAT;	2002/08/22
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40	27	380/231.ccls. and picture	USPAT;	2002/08/22
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41	92	709/227.ccls. and picture	USPAT;	2002/08/22
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- Hierarchical rapid modeling of picture archiving and communication systems using LANNET II.5 and NETWORK II.5 Emil Wirsz, Fred W. Prior, Glenn A. Meredith, Kenneth R. Anderson Proceedings of the 24th conference on Winter simulation December 1992
- 2 Simulation of a hospital picture archiving 88%

and control system (PACS)
G. R. Lawrence, G. A. Marin, S. E. Naron
Proceedings of the 17th conference on
Winter simulation December 1985

The nation's hospitals have long used distributed data processing as a means of reducing operational costs and providing timely service. Radiology Departments are now also taking advantage of these facilities in order to decrease the cost of producing and archiving radiological images. Today a typical medium scale hospital consumes large quantities of silver oxide film which, along with attendant labor costs, is expensive compared with costs for digital image processing technology now avail ...

A management system for a PACS
network in a hospital environment
Viviane Jonckers, B. Criel
Proceedings of the third international
conference on Industrial and engineering
applications of artificial intelligence and
expert systems - Volume 2 June 1990

The paper reports on a network management system for a Picture Archiving and Communication System (PACS) in a hospital environment. The

84%

size of a typical data transfer in this environment is several orders of magnitude larger than a typical data transfer in a local area computer network. To ensure reasonable response times to the system's users, it is necessary to sequentialise the image traffic on the PACS network. Knowledge about patient flow, radiologist flow, and image flow which is ava ...

- 4 Three-dimensional medical imaging: 84% algorithms and computer systems M. R. Stytz , G. Frieder , O. Frieder ACM Computing Surveys (CSUR) December 1991

  Volume 23 Issue 4
- Searching for information in a hypertext 82% medical handbook Mark,E. Frisse Communications of the ACM July 1988 Volume 31 Issue 7
  Medicine is an ideal domain for hypertext applications and research. Implementing a popular medical handbook in hypertext underscores the need to study hypertext in the context of full-text document retrieval, machine learning, and user interface issues.

**6** Impacts of PACS on radiological work

82%

Nina Lundberg

Proceedings of the international ACM SIGGROUP conference on Supporting group work November 1999

This paper identifies and analyzes the impacts on work practices and interdependencies in radiological work by PACS (Picture Archive and Communication System). It illustrates that when PACS was introduced not only technical devices were integrated, but the people, work practices and organizations as well. In addition, the paper illustrates how detailed workplace studies may identify substantial social changes, emerged from initially insignificant technical solutions that rapidly grows and q ...

7 Information retrieval from hypertext:

80%

update on the dynamic medical handbook project

M. E. Frisse, S. B. Cousins
Proceedings of the second annual ACM
conference on Hypertext November 1989
This paper attempts to provide a

This paper attempts to provide a perspective from which to develop a more complete theory of information

retrieval from hypertext documents. Viewing hypertexts as large information spaces, we compare two general classes of navigation methods, classes we call local and global. We argue that global methods necessitate some form of "index space" conceptually separate from the hypertext "document space". We note that the architectures of both spaces effect the ease with ...

8 Posters: A web based medical image data processing and management system

80%

Jinman Kim , David D. Feng , Tom W. Cai Selected papers from the Pan-Sydney workshop on Visualisation - Volume 2 December 2000

Medical services in current-time rely heavily on digital imaging technology due to image modalities utilized in medical field such as the computer tomography and magnetic resonance imaging. These techniques require image-processing tools and digital management that has been the primary reason for development of Picture Archiving and Communication Systems (PACS). The limitation to PACS is that

the system architecture limits itself to be only used in the local area network, which at times causes i ...

**9** Participatory analysis of flexibility

80%

Arne Kjær , Kim Halskov Madsen
Communications of the ACM May 1995
Volume 38 Issue 5

Analysis as part of requirements gathering, conducted according to conventional systems development approaches like structured analysis and object-oriented analysis, focuses on standard data formats and general data flow. The data dictionaries and data flow diagrams of Yourdon's structured project life-cycle [21] model the general standard data format and flow, respectively. Within the object-oriented paradigm Booch [2] emphasizes, quoting W. Wulf, that: We (humans) have ...

**10** Posters: A web-based collaborative

77%

system for medical image analysis and diagnosis

Yu S Lim , David Dugan Feng , Tom Weidong Cai Selected papers from the Pan-Sydney workshop on Visualisation - Volume 2 December 2000 The overall objective of this paper is to show the development of a web-based collaborative system for medical image analysis and diagnosis that is affordable, usable, reliable and efficient for medical area. The system consists of four components that are chat system, online image manipulation system, message board and server system. To carry out the objective of the system, various method are applied such as JAVA applet which is system independent using a virtual machine technology, server and

. . .

- 11 Conceptual linking: ontology-based open 77% hypermedia
  Leslie Carr, Wendy Hall, Sean Bechhofer,
  Carole Goble
  Proceedings of the tenth international conference on World Wide Web April 2001
- 12 Knowledge barriers to diffusion of 77% telemedicine
  Huseyin Tanriverdi, C. Suzanne Iacono
  Proceedings of the international conference on Information systems December 1998
- 13 Utilizing mobile computing in the Wishard 77%

- Memorial Hospital ambulatory service Stuart Morton, Omran Bukhres Proceedings of the 1997 ACM symposium on Applied computing April 1997
- 14 The RasDaMan approach to 77% multidimensional database management Peter Baumann, Paula Furtado, Roland Ritsch, Norbert Widmann Proceedings of the 1997 ACM symposium on Applied computing April 1997
- The Linux means business

  Cheng-Ta Wu
  Linux Journal January 1999
  Linux as a PACS Server for Nuclear
  Medicine: Linux is being used in a
  Taiwan hospital as a server for medical
  images and as a firewall
- 16 Technical opinion: On defining computer 77%

  discience terminology
  Wilhelm Hasselbring
  Communications of the ACM February 1999

Volume 42 Issue 2

**17** PACCESS: enabling easy access to 77% radiology images at a hospital

Henrik Gater

Proceedings of the conference on CHI 98 summary: human factors in computing

systems: human factors in computing

systems April 1998

**18** Similarity query processing using disk

77%

arrays

Apostolos N. Papadopoulos , Yannis Manolopoulos

ACM SIGMOD Record , Proceedings of the 1998 ACM SIGMOD international conference on Management of data June 1998

Volume 27 Issue 2

Similarity queries are fundamental operations that are used extensively in many modern applications, whereas disk arrays are powerful storage media of increasing importance. The basic trade-off in similarity query processing in such a system is that increased parallelism leads to higher resource consumptions and low throughput, whereas low parallelism leads to higher response times. Here, we propose a technique which is based on a careful investigation of the currently available data in ord ...

19 A class of mobile motion prediction

77%

algorithms for wireless mobile computing and communication
George Liu, Gerald Maguire
Mobile Networks and Applications October 1996

Volume 1 Issue 2

This paper describes a class of novel mobile motion prediction algorithms for supporting global mobile data accessing. Traditionally, mobility and routing management includes functions to passively keep track of the location of the users/terminals and to maintain connections to the terminals belonging to the system. To maintain uninterrupted high-quality service for distributed applications, it is important that a mobile system be more intelligent and can anticipate the change of the locati ...

**20** Computer simulation of hospital

77%

operations: session introduction Elliot Sigal

Proceedings of the 17th conference on Winter simulation December 1985

Annual national expenditures for hospital care have increased dramatically, rising from \$13.9 billion in 1965 to over \$100

billion in the 1980's. (1) Rapidly escalating expenditures have been worrisome to all of us, but particularly so to federal and state governments which pay over half of the national bill for hospital care. In response to rising costs, a new system of reimbursement to hospital has been developed. Initiated by legislation in 1982 called TEFRA (Tax Equ ...

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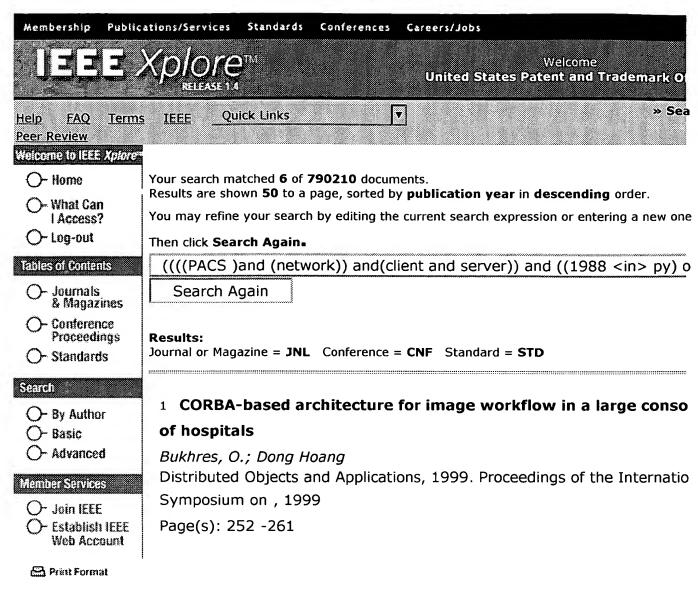
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[Abstract] [PDF Full-Text (80 KB)] CNF

#### 2 Experience with PACS in an ATM/Ethernet switched network environment

Pelikan, E.; Ganser, A.; Kotter, E.; Schrader, U.; Timmermann, U.

Information Technology in Biomedicine, IEEE Transactions on , Volume:

Issue: 1, March 1998

Page(s): 26 -29

[Abstract] [PDF Full-Text (84 KB)] **JNL**